

Title (en)
ACCURATE PRESSURE SENSOR

Title (de)
PRÄZISER DRUCKSENSOR

Title (fr)
CAPTEUR DE PRESSION PRÉCIS

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Abstract (en)
[origin: WO2007081131A1] The invention relates to a pressure sensor capable of measuring pressure accurately, and more particularly, to a pressure sensor comprising a box-shaped magnet, optionally having an inclined upper surface with a right side portion protruding higher than a left side portion, wherein the magnet is configured to radiate linear magnetic flux density in response to a change in distance along a straight line spaced uniformly apart from an N or S pole surface, whereby the pressure sensor can accurately detect a displacement in distance (position) and thus a pressure difference based on the displacement. The pressure sensor further includes a pipe connecting negative and positive pressures, a diaphragm movable in response to a difference between negative and positive pressures, a diaphragm support attached to a side of the diaphragm, a magnet attached to the diaphragm support to radiate linear magnetic flux density, a spring supporting the magnet, and the diaphragm and upper and lower cases housing these components.

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